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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/601,441 | 06/23/2003 | Victor Suen | 02-6050 | 7640 |
| 24319 | 7590 | 10/05/2007 | EXAMINER | |
| LSI CORPORATION 1621 BARBER LANE MS: D-106 MILPITAS, CA 95035 | | | CHANG, ERIC | |
| ART UNIT | | PAPER NUMBER | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|------------------------|------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/601,441 | SUEN ET AL. | |
| | Examiner Eric Chang | Art Unit 2116 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 July 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-6,8-22,24 and 25 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) _____ is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application
6) Other: _____.

DETAILED ACTION

1. Claims 1-6, 8-22 and 24-25 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-6, 8-22 and 24-25 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,625,682 to Simon et al.

4. As to claim 1, Simon discloses a system, comprising: a first delay circuit [790] configured for programmably delaying a strobe signal with a first delay to latch a data signal, wherein the first delay circuit has an overhead delay that may vary based on fabrication process variations or operating conditions or both fabrication process variations or operating conditions of the first delay circuit [col. 15, lines 56-66]; and a second delay circuit [620, 630, 640] in close proximity to the first delay circuit [FIG. 7A], the second delay circuit configured for delaying the data signal with a second delay that is substantially identical to the overhead delay of the first delay circuit [col. 15, lines 56-66]. Simon further teaches that close proximity of the first and

second delay circuits generate an overhead delay caused by substantially identical fabrication process variations and operating conditions [col. 15, lines 42-60].

5. As to claim 2, Simon discloses a logic circuit [970a-d] communicatively coupled between the first and the second delay circuits and configured for latching the data signal substantially aligned with the strobe signal [col. 18, lines 48-61].

6. As to claim 3, Simon discloses the logic circuit comprises a flip/flop device [970a-d].

7. As to claim 4, Simon discloses a master delay circuit [520] configured for locking a clock signal and for programming the first delay circuit with the first delay therefrom [col. 16, lines 7-24].

8. As to claim 5, Simon discloses the second delay comprises a duration that is less than a cycle duration of the clock signal [col. 15, lines 42-55].

9. As to claim 6, Simon discloses a plurality of the first and the second delay circuits [712, 722, 724, 726, 728, 750].

10. As to claim 8, Simon discloses a method of latching a data signal, comprising steps of: programmably delaying a strobe signal with a first delay [790], wherein the first delay circuit has an overhead delay that may vary based on fabrication process variations or operating conditions

or both fabrication process variations or operating conditions of the first delay circuit [col. 15, lines 42-60]; delaying the data signal with a second delay that is substantially identical to the overhead delay of the first delay [col. 15, lines 42-60]; and registering the data signal responsive to the first delay using the strobe signal [col. 18, lines 48-61].

11. As to claim 9, Simon discloses locking a clock signal to generate a control signal that programmably delays the strobe signal with the first delay [col. 16, lines 7-24].

12. As to claim 10, Simon discloses the locking comprises a step of simultaneously transferring the control signal through a plurality of control lines to uniformly perform the step of programmably delaying [col. 16, lines 7-24].

13. As to claim 11, Simon discloses the step of delaying the data signal comprises a step of generating the second delay such that the duration of the second delay is less than a cycle duration of the clock signal [col. 15, lines 42-55].

14. As to claim 12, Simon discloses the step of registering the data signal comprises steps of: receiving the data signal; and latching the data signal with the strobe signal [col. 18, lines 48-61].

15. As to claim 13, Simon discloses a system for latching a data signal, comprising: means for programmably delaying a strobe signal with a first delay [790], wherein the first delay circuit has an overhead delay that may vary based on fabrication process variations or operating

conditions or both fabrication process variations or operating conditions of the first delay circuit [col. 15, lines 42-60]; means for delaying the data signal with a second delay that is substantially identical to the overhead delay of the first delay [col. 15, lines 42-60]; and means for registering the data signal responsive to the first delay using the strobe signal [col. 18, lines 48-61].

16. As to claim 14, Simon discloses means for locking a clock signal to generate a control signal that programmably delays the strobe signal with the first delay [col. 16, lines 7-24].

17. As to claim 15, Simon discloses the means for locking comprises means for simultaneously transferring the control signal through a plurality of control lines to uniformly perform the means for programmably delaying [col. 16, lines 7-24].

18. As to claim 16, Simon discloses the means for delaying the data signal comprises means for generating the second delay such that the duration of the second delay is less than a cycle duration of the clock signal [col. 15, lines 42-55].

19. As to claim 17, Simon discloses the means for registering the data signal comprises: means for receiving the data signal; and means for latching the data signal with the strobe signal [col. 18, lines 48-61].

20. As to claim 18, Simon discloses a system, comprising: a first delay circuit configured for programmably delaying a first signal with a first delay to provide a delayed first signal [790],

wherein the first delay circuit has an overhead delay that may vary based on fabrication process variations or operating conditions or both fabrication process variations or operating conditions of the first delay circuit [col. 15, lines 42-60]; and a second delay circuit configured for delaying the first signal with a second delay that is substantially identical to the overhead delay of the first delay circuit to latch the delayed first signal [col. 15, lines 42-60].

21. As to claim 19, Simon discloses monitor logic [970a-d] communicatively coupled between the first and the second delay circuits and configured for latching the delayed first signal in substantially alignment with the first signal [col. 4, lines 8-21].

22. As to claim 20, Simon discloses the monitor logic is further adapted to provide timing for the system that corresponds with the first signal and to program the first delay circuit with the first delay therefrom [col. 16, lines 7-24].

23. As to claim 21, Simon discloses the second delay comprises a duration that is less than a cycle duration of the first signal [col. 15, lines 42-55].

24. As to claim 22, Simon discloses a plurality of the first and the second delay circuits [712, 722, 724, 726, 728, 750].

25. As to claims 24-25, Simon discloses the first and second delay circuits comprise substantially the same circuitry [col. 16, lines 7-24].

Response to Arguments

26. Applicant's arguments with respect to claims 1-6, 8-22 and 24-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Chang whose telephone number is (571) 272-3671. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on (571) 272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 20, 2007
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REHANA PERVEEN
SUPERVISORY PATENT EXAMINER
9/28/07